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1. Document ID: US 5431997 A Relevance Rank: 99

L1: Entry 2 of 2

File: USPT

Jul 11, 1995

US-PAT-NO: 5431997DOCUMENT-IDENTIFIER: US 5431997 A

TITLE: Process of producing porous web materials used for making infusion packages for brewing beverages and the web materials thus produced

DATE-ISSUED: July 11, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Scott; Peter C.	Enfield	CT	N/A	N/A	
Viazmensky; Helen	South Windsor	CT	N/A	N/A	
Wolcheck, Jr.; Nicholas	Suffield	CT	N/A	N/A	

US-CL-CURRENT: 442/79; 206/5, 426/77, 426/84, 428/306.6,  
428/308.8, 428/446, 428/449, 428/511, 442/81, 442/82

## ABSTRACT:

A porous web material for making infusion packages having enhanced mechanical seam integrity is obtained by treating the entire fibrous web material with an aqueous emulsion of a hydrophobic agent selected from the group consisting of high molecular weight cross-linked acrylic polymers, silicones, fluorohydrocarbons, paraffins, alkyl ketene dimers and stearylated materials. The hydrophobic agent, which may also act as a strength imparting binder, is preferably applied as a saturating treatment. The treated web is subsequently dried to insolubilize the agent on the web. The web exhibits no appreciable water climb when measured using water at a temperature of about 100.degree. C. and no substantial loss of infusion characteristics while providing less than 10 percent failure in a mechanical seam therein when exposed to boiling water.

16 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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2. Document ID: US 6238519 B1 Relevance Rank: 93

L1: Entry 1 of 2

File: USPT

May 29, 2001

US-PAT-NO: 6238519

DOCUMENT-IDENTIFIER: US 6238519 B1

TITLE: Soft absorbent paper product containing deactivated ketene dimer agents

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; David A.	Hillsboro	OR	N/A	N/A
Clungeon; Nancy C.	Manawa	WI	N/A	N/A

US-CL-CURRENT: 162/123, 162/111, 162/112, 162/125, 162/127,  
162/129, 162/130, 162/158, 162/179

## ABSTRACT:

New and improved methods and products are disclosed relating to increasing the softness of paper sheets, without effecting their wettability. Increased softness, without loss of wettability is obtained by adding deactivated ketene dimer sizing agents to the sheet.

8 Claims, 1 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

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